

I CLAIM:

1. A position measuring system, comprising:
 - a housing comprising a wall, said wall having an opening and comprising a deformation;
 - a measurement device accommodated in said housing, said measurement device detects and/or processes measurement values and outputs a position-dependent measurement signal;
 - a cable comprising a shield, wherein said cable is positioned within said opening and is electrically connected to said measurement device so as to carry said measurement signal; and
 - wherein said deformation of said wall fixes said cable in said opening and for binding said shield to said housing.
2. The position measuring system of claim 1, further comprising a jacket that surrounds said shield; and
 - wherein said cable comprises signal lines, said shield surrounds said signal lines, and said shield in said opening is in electrical contact with said housing.
3. The position measuring system of claim 2, wherein said deformation extends along a direction extending in terms of its length from a position exterior of said housing to a position within said housing, said deformation comprises:
 - a first portion in which said wall does not contact said shield; and
 - a second portion in which said wall contacts said shield.

4. The position measuring system of claim 3, wherein in said first portion, said wall directly contacts and surrounds an entire circumference of said jacket.
5. The position measuring system of claim 4, wherein in said second portion, said shield is upended/turned back onto said jacket.
6. The position measuring system of claim 1, further comprising an adhesive provided in said opening between said cable and said housing.
7. The position measuring system of claim 1, further comprising an elastic intermediate ply provided in said opening between said cable and said housing.
8. The position measuring system of claim 3, further comprising an elastic intermediate ply provided in said opening between said cable and said housing; and wherein in said first portion, said wall directly contacts and surrounds an entire circumference of said intermediate ply, and in said second portion, said shield is upended/turned back onto said intermediate ply.
9. The position measuring system of claim 1, wherein said housing is embodied cylindrically with an end wall and a code disk that measures angles and contains a detector device that scans the code disk.

10. The position measuring system of claim 9, wherein said opening extends transversely to a longitudinal axis of said housing and is disposed on said end wall.

11. The position measuring system of claim 10, wherein said end wall, in a region of said opening, has a swelling of material.